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(71)Applicant : NATL INST FOR RES IN INORG
MATER
SHOWA DENKO KK

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(72)Inventor : NAKAZAWA HIROMOTO
YAMADA HIROHISA
TAMURA TAKASHI
HOSOKAWA TERUO
INOUE HIROFUMI
MOGI YOSHIHIRO

(54) LIPOPHILIC INORGANIC FILLER AND COMPOSITE RESIN COMPOSITION

(57)Abstract:

PROBLEM TO BE SOLVED: To obtain a lipophilic inorg. filler well swollen with a small amt. of org. cations and improving the heat resistance and rigidity of a composite resin compsn. having a high aspect ratio.

SOLUTION: Org. cations are intercalated into a swellable silicate represented by the formula $[Aa(XbYc)(Si_4-dAl_d)O_{12}(OH_eF_{2-e})]$ and having $\geq 2\mu m$ average grain diameter of single crystal grains, $70-250\text{\AA}$; 2/charge charge density and a smectite structure to obtain the objective lipophilic inorg. filler. In the formula, $0.2 \leq a \leq 0.7$, $0 \leq b \leq 3$, $0 \leq c \leq 2$, $0 \leq d \leq 4$, $0 \leq e \leq 2$, A is at least one cation selected from among alkali metal ions and alkaline earth metal ions, X and Y are cations entering into each octahedron in the smectite structure, X is at least one among Mg, Fe, Mn, Ni, Zn and Li, and Y is at least one among Al, Fe, Mn and Cr.

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